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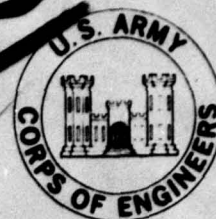
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Special Report, 78-19

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Oct 1978

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**SELECTED BIBLIOGRAPHY OF DISTURBANCE
AND RESTORATION OF SOILS AND
VEGETATION IN PERMAFROST REGIONS
OF THE USSR (1970-1977).**

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Prepared for
DIRECTORATE OF FACILITIES ENGINEERING
OFFICE, CHIEF OF ENGINEERS
By



COLD REGIONS RESEARCH AND ENGINEERING LABORATORY
U.S. ARMY CORPS OF ENGINEERS
HANOVER, NEW HAMPSHIRE

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This compilation of literature published in Russian since 1970 comprises 1225 bibliographic citations relating to disturbance and restoration of soils and vegetation. Sixty-five percent of these were found by a manual search of CRREL Bibliography vols. 25-32; the others were obtained through off-line searches from the relevant computerized data bases and personal files. Only one of these data bases, that of the National Agricultural Library, is shown to be of signi- ficance in providing a valuable checking source. The literature is discussed		

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20. Abstract (cont'd)

An chronological fashion, with general statements followed by highlights of each year's contributions (with two tables and two appendices for amplification). The years 1972 and 1973 produced the most publications, and by 1976 there was a noticeable lag in pickup of publications by the indexing services. A trend is apparent from a reconnaissance and description approach in earlier papers toward an integrated ecosystem approach in more recent publications. Certainly, increased consciousness of the effects of disturbance on the permafrost environment, and the importance of restoration and preservation of these environments, are reflected in the recent literature, particularly in symposium proceedings.

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PREFACE

This bibliography was prepared by Martha Andrews, Research Bibliographer, Boulder, Colorado. The work was funded by DA Project 4A161102AT24, Research in Snow, Ice and Frozen Ground, Scientific Area 02, Cold Regions Environmental Interactions, Work Unit 002, Cold Regions Environmental Factors; and by DA Project 12865803M761, Technical Information Analysis Centers (Cold Regions Information Analysis Centers). The project was under the direction of Dr. Jerry Brown, who offered much advice and materials. Library facilities at INSTAAR (University of Colorado), the U.S. Army Cold Regions Research and Engineering Laboratory, and Scott Polar Research Institute, Cambridge, England, were used. Eunice Salisbury, former CRREL Librarian, provided much assistance with CRREL Bibliography materials, and Nancy Dumont, CRREL Librarian, spent many hours developing search strategies and aiding with computer searches. The Institute of Quaternary Studies and the Department of Geological Sciences, University of Maine at Orono, kindly furnished space and equipment during the final preparation of the bibliography.

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**SELECTED BIBLIOGRAPHY OF DISTURBANCE AND RESTORATION
OF SOILS AND VEGETATION IN PERMAFROST
REGIONS OF THE USSR (1970-1977)**

by

Martha Andrews

Introduction

Soils and vegetation may be disturbed naturally or through human contact. Natural disturbance includes damage by fire, grazing and erosion, with thermal erosion of permafrost a significant factor. Human disturbance is varied, road building, fire control, mining, oil spills, off road vehicles, logging and air pollution being the major causes. Disturbance from any source causes existing vegetation to be damaged, killed and/or removed, and soils to change in moisture content, density, nutrient status, aeration and thaw depth.

Restoration or recovery of the damaged or disturbed ecosystem can also be either natural or man-induced. Revegetation and restoration of the disturbed site to its natural state may be partially or entirely successful, depending on many factors. Protection of sites in danger of disturbance may prevent both the disturbance and the need for restoration.

This bibliography of Russian literature covers the years from 1970 through 1977. Since the concepts of disturbance and restoration are relatively new as subjects of intensive study, the boundaries of the literature search in the earlier years were expanded to include selected literature concerning soils and plant ecology in both arctic and alpine areas which might relate to the desired subjects. In addition to the scarcity of disturbance and restoration studies in the earlier literature, there is a time lag among subject headings used in bibliographic indexing, i.e. the indexers tend to fit anomalous items into the existing subject thesaurus until it becomes evident that a new area of research has become established and is producing enough items to be indexed by new terms. Therefore, some earlier works may be lost temporarily in this manner to the person searching the standard bibliographies.

This bibliography of Russian literature includes and updates CRREL Special Report 77-7* which covered the literature through mid-1976.

CRREL Bibliography Search

The major body of this bibliography has been culled from volumes 25-32 of the CRREL Bibliography on Cold Regions Science and Technology, CRREL Report 12. The CRREL bibliography provides the best reference in

*Andrews, M. (1977) Selected bibliography of disturbance and restoration of soils and vegetation in permafrost regions of the USSR (1970-1976). CRREL Special Report 77-7, 116 p.

English to the Russian literature in fields appropriate to the CRREL mission. Only items published during or after 1970 have been included. The language used in these publications is restricted to Russian with the exception of some English translations and some English language summaries of recent symposia including Russian materials. One or two items in Japanese about Yakutia have also been included. The area within the Soviet Union dealt with is wherever permafrost exists, either in a continuous or discontinuous condition. This large area includes zones variously defined as arctic, subarctic, tundra, taiga, alpine and subalpine.

In searching the CRREL bibliography, I began by devising a list of subject headings used in it which I thought appeared relevant (Table I) and from which I started to trace references. It quickly became apparent that to search the volume of material involved, it would be much faster to scan each citation in its entirety. This of course meant scanning approximately 4000 citations for each volume of the CRREL bibliography, which was done at a rate of some 600 items per hour. Each item was marked, and appropriate subject headings were selected from those already selected by the original indexer of the publication. This aspect of selectivity in bibliographic work is important to emphasize. The experience and judgment of the bibliographers must be trusted as there is no quantitative or objective approach possible in indexing.

Main entry cards and subject-headed copies were made of the items chosen. The subject index to this bibliography was not continued after vol. 28. This was due to the growing size of the bibliography which made me question whether a user would approach his own search through a regular subject index, or whether another kind of breakdown would be more useful. For the purposes of this report, it has been decided to discuss the references in a chronological fashion. Appendix I lists the authors publishing in each year to show the scope of each year's contributions and the development of key researchers in the field. The reader is referred to Appendix II for full citations, arranged alphabetically for the entire period (1970-1977).

In the subject indexes to volumes 25 and 26 of the CRREL bibliography very few terms were used to denote natural disturbance (thermokarst being one) and probably the only one denoting human disturbance was "environmental impact." By volume 27 "damage" was being used; volume 29 introduced "protection" (of natural environments) and included "human factors," "forest fires," and "revegetation." Reforestation had been used earlier. "Disturbance" has not been used and probably should be used in addition to "damage," which also includes damage to structures. "Restoration" or "recovery" should be used in addition to "revegetation," as for soil recovery, etc.

Material Not Yet Entered in the CRREL Bibliography

A certain number of items added to the bibliography came from personal materials in the office of Dr. Jerry Brown of CRREL. The bulk of these consisted of items for future addition or expansion (i.e. content analysis) in the CRREL bibliography.

TABLE I
Computerized searches were run on all relevant data bases available in 1976. The only one which appeared to produce anything significant that may have been overlooked by me in searching the CRREL Bibliography, was that of the National Agricultural Library (NAL). The list of items included in this bibliography, and may appear in NAL, but not to include those items already covered by NAL already had been referenced by certain that appeared in the bibliography. I checked some of a good cross-checking and found that the list was not broken down and easily checked.

SUBJECT HEADINGS	
Active layer	Permafrost transformation
Active layer thickness	Photosynthesis
Agriculture	Plant ecology
Alpine soils	Plant nutrition
Alpine vegetation	Plant physiology
Arctic soils	Plants (botany)
Arctic terrain	Podzols
Arctic vegetation	Protection
Bibliographies	Protective vegetation
Biomass	Reforestation
Clay soils	Revegetation
Clays	Sands
Cryogenic processes	Soil classification
Cryogenic soils	Soil composition
Damage	Soil erosion
Desert soils	Soil formation
Deserts	Soil microbiology
Ecology	Soil moisture
Ecosystems	Soil moisture migration
Environmental impact	Soil profiles
Environments	Soil structure
Forest ecosystems	Soil temperature
Forest fires	Soils
Forest soils	Subarctic vegetation
Forest tundra	Subarctic soils
Frozen ground	Subarctic terrain
Fungi	Taiga
Geobotanical interpretation	Taiga forests
Grasses	Taiga regions
Ground ice	Taiga soils
Human factors	Taiga terrain
Hummocks	Taiga vegetation
Lichens	Thermokarst
Loess	Trees (plants)
Meadow soils	Tundra soils
Mosses	Tundra terrain
Mottled tundra	Tundra topography
Mountain soils	Tundra vegetation
Organic soils	Vegetation
Paleoecology	Vegetation factors
Palsas	Vegetation patterns
Patterned ground	Water erosion
Peat	Weathering
Permafrost heat balance	

Computerized Data Base Searches

Computerized searches were carried out on all relevant data bases available in 1976. The only one which appeared to produce anything significant that may have been overlooked by CRREL, or by me in searching the CRREL Bibliography, was that of the National Agricultural Library (NAL). Of the 122 additions I have made from it to this bibliography, the bulk of the material is on soils and forestry and may appear in NAL for its agricultural relevance. CRREL may have chosen not to include these items because of their agricultural bias or because NAL already had covered them. It is also certain that some of the 122 items had been referenced by CRREL and missed by me, an indication of the value of a good cross-checking source.

The computer searches have been broken down and analyzed as follows (see Table II).

A. Those generated from CRREL by Dr. Brown and Nancy Dumont

1. 7 July 1976. NTIS, DIALOG* Search File 6.
The search strategy was not available to me. Of the 35 items produced none was used.
2. 6 July 1976. SSIE, ORBIT III.
The printout was entitled Arctic Soils, although no search statement was included. SSIE indexes research projects underway rather than publications, so no citations were provided here.
3. 7 July 1976. GEOREF, ORBIT III.
The topic was Permafrost Regions, again without a search strategy included. Some interesting pre-1970 items were noticed, as were four items already included from CRREL. Four additions to the bibliography were made.
4. 27 September 1976. NAL/CAIN, DIALOG Search File 10.
Searched by C.N. Bebee for Nancy Dumont. The search strategy and list of descriptors are included. 312 items were printed, of which 14 were additions to the bibliography. The problem with the rest was that not all appropriate descriptors had been used, and the Russian emphasis was inadequate.

B. Those generated from Boulder, Colorado, searched by V. Schneller at NOAA with input from Martha Andrews and John Emerick from INSTAAR.

5. 10 May 1976. DIALOG and ORBIT Files. A similar search strategy (available) was used on four different data bases:
 - a. NAL/CAIN. 67 items printed. When I first scanned this list many items were marked for inclusion in the bibliography but cards were not made at that time. When I rechecked after using further sources for the bibliography, I was still able to add 12 items from this list. The authors found on this list were used in the later author search of NAL.

*DIALOG is the access program for the Lockheed system of computerized bibliographical data bases; ORBIT is the same for the SDC system. Some data bases (such as NAL/CAIN) are searchable on both systems.

TABLE II

A tabulation of the numbers of citations obtained from the computerized data bases, by year.

	1970	1971	1972	1973	1974	1975	1976	Total
GEOREF (A.3.)*			3		1			4
NAL/CAIN (Lockheed)	1	1	4	8	9	3		26
(A.4, B.5.a.)								
Biol. Abst. Inc.			1	1	1			3
(B.5.b.1, B.5.b.2.)								
NAL/CAIN (C.)	20	16	18	25	26	22	1	128
Total	21	17	26	34	37	25	1	161

*The letters and numbers following the data base names refer to their place of discussion in the text, pages 4-5.

b.(1) BIOL. ABST. Inc. Eleven items printed. Seven were useful but I already had five of them, so one was added.

b.(2) BIOL. ABST. Inc. Nine items printed; since five had already been included, only one more was added to the bibliography.

c. NTIS. Seven items printed. None was added.

d. GEOREF. Twenty-eight items printed. Most relevant ones of these had been included on the earlier GEOREF search and nothing was added.

C. A search generated from CRREL by Nancy Dumont with input from Dr. Jerry Brown and Martha Andrews. Searched on NAL/CAIN 23 September 1976 - ORBIT III. This was a search by author for every item published by that author and indexed at NAL. Our author list included all authors used from CRREL vol. 25-28, and the authors found from the earlier subject search of the NAL File (B.5.a.). The printout consisted of 1482 items listed on 27 different batch printouts arranged in no particular order other than a loose grouping according to letters of the alphabet. There were innumerable repetitions among the 1482 items. One hundred and four items were identified as already having been included from the CRREL bibliography. However, this identification was provided from quite a casual check; if a systematic check had been made no doubt the number would have been much higher. In the end, after over 20 hours of work, 128 items were added to the bibliography from this list. Although it is probable that only a few of these items could be considered absolutely crucial to the completeness of the bibliography, many, many items chosen serve to round out or enhance the bibliography and it is felt that this was a worthwhile check.

The idea of a search by author seems valid also, given the selective nature of subject indexing by possibly inexperienced indexers for the data bases, and also the fact that searching for subject within a particular geographic or physiographic area on the computerized data bases is still a primitive art. Experienced scientists often use authors in searching the literature as they know who is prominent in their own fields. However, it

did become evident that a certain number of prolific authors had really only contributed in a small way to the subject of the bibliography.

Bibliography Supplied by N. Grave

A Bibliography on Frozen Rocks and Recultivation of Natural Systems, 1969-1976 was supplied by N. Grave and used by him in preparing a paper with J. Brown.* Some 188 of the items provided are included here, over half of which had appeared in the CRREL bibliography and are numbered as such. The remainder were materials extremely difficult to find outside of the USSR, or materials not emphasized by CRREL. All of these items have the source code NG. Items not used were: 1) those pre-dating 1970; 2) those with no dates supplied; and 3) those already included. The thermal regime of frozen rocks had not received special emphasis in CRREL Special Report 77-7, nor in this update, so the NG materials serve to fill this gap.

Analysis of the Research, as Reflected in the Literature

Developments in research relating to disturbance and restoration of soils and vegetation in permafrost regions of the USSR are assumed to be reflected in the published results of such research. This commentary, approached in a chronological fashion in order to see trends, is based on information contained in the titles and from subject indexing provided at source by the CRREL Bibliography indexers. None of the papers has been seen in full. Appendix I lists authors publishing in each year. Full citations, listed alphabetically by author, are in Appendix II. Of the total 1225 citations, approximately 65% came from the CRREL bibliography, 20% from personal files, and 15% from the computerized data bases.

1970

124 items. Approximately half of these titles are of a descriptive nature, concerned with the characteristics and distributions of permafrost and the vegetation and soil thereon. The others tend to be more process-oriented, examining interrelationships in plant communities, biological productivity, experiments in alteration of plant growth, and frozen ground thermal characteristics. Plant productivity and the utilization of natural resources in the north form the basis of two volumes of collected works.

1971

185 items. Descriptive treatment continues in the literature along with analytical papers. The latter include works on biological productivity, reforestation, and plant introduction in the north. Thermal regime of frozen rocks is discussed in several papers.

1972

268 items. Damage and restoration of soils and vegetation became much more prominent in the literature for this year, particularly within several

*Brown, J. and N. Grave (1978) Terrain disturbance and ground temperature regimes. Provisional manuscript for Third International Permafrost Conference, July 1978.

symposium-type volumes, notably the 5th Symposium on Biological Problems of the North (Soils and Vegetation of Permafrost Regions in the USSR). Several items relating thermal regime in permafrost to problems of economic development appear.

1973

228 items. Although somewhat fewer items appeared in this year, 1973, along with 1972, seems to be the high point in publications relating to disturbance and restoration, with some good volumes of collected works. Relationship of thermal regime to natural and human disturbances is explored further.

1974

173 items. Now, a sharp decline in numbers of publications is evident, but the quality appears high. A substantial addition to alpine studies is in evidence, and much interest is apparent in both natural and human damage to soils and vegetation.

1975

131 items. The interest and research in damage and restoration seem to be continuing, although the number of publications is down somewhat. Of major note is the Conference - Environment Protection in Relation to Economic Development of Permafrost Regions.

1976

91 items. The effects of updating the bibliography are most apparent here, with an increase of 65 items over Special Report 77-7. It was possible at this stage to more accurately pinpoint truly relevant papers, all of which add something to the literature on damage and restoration.

1977

25 items selected from the various sources. With only a few items having been cited for this past year, they continue to be reflective of man's impact on the permafrost environment, and the efforts to ameliorate the results of this impact.

Translations from Russian to English*

The most important guide to cover-to-cover translations of Russian journals into English is that published by the Delft European Translations Centre.† The latest edition available at the University of Colorado Library was published

*Information in this section is mainly based on: Armstrong, T.E. (1972) English translations of Russian scientific publications. Polar Record, vol. 16, no. 100, p. 79-80.

†de Groot de Rook, A.S. (1971) Translations journals. Lists of periodicals translated cover-to-cover. Abstracted publications and periodicals containing selected articles. Delft, European Translations Centre, 62 p. (Appears annually.)

in 1972; it is listed as an annual publication. Most useful journals for users of this bibliography are the following:

Problemy Severa (Problems of the North), National Research Council, Ottawa 1

Sovetskaya Geologiya (Soviet Geology), American Geological Institute.

Doklady Akademii Nauk SSSR (Reports of the Academy of Sciences of the USSR), Biological papers and botanical papers, two series published by Plenum Publishing Corporation, 227 W 17th St., New York 10011. Earth sciences papers, published by the American Geological Institute, 2201 M St. NW, Washington 20037.

Ekologiya (Ecology), Plenum Publishing Corporation.

Geofizicheskiy Byulleten' (Geophysical Bulletin), National Technical Information Service.

Geologiya i Geofizika (Geology and Geophysics), Aztec School of Languages, P.O. Box 323, West Acton, Massachusetts 01780.

Geologiya Rudnykh Mestorozhdeniy (The Geology of Ore Bodies), Pergamon Press, London.

Izvestiya Akademii Nauk SSSR. Seriya Fiziki Zemli (Bulletin of the Academy of Sciences of the USSR. Physics of the earth series), American Geophysical Union.

Izvestiya Akademii Nauk SSSR. Seriya Geologicheskaya (Bulletin of the Academy of Sciences of the USSR. Geological series), Kraus Periodicals, 16 E 46th St., New York 10017.

Any item listed in Appendix II from one of the above journals is assumed to have been translated.

A relatively new translation journal is Polar Geography, published in cooperation with the American Geographical Society in New York, and it includes geographical articles of interest to polar research workers. Some articles are from Japanese and other languages as well as from Russian. Translations of principal articles from Pochvovedeniye and other Russian soils journals appear in Soviet Soil Science, published by Scripta.

Translations of papers from other journals, and books, are harder to track down. Translations of papers are often not published; those of books usually are. A wide variety of publicly and privately supported agencies in North America, England, Israel and India are in the business of translating from Russian to English. Several of these publish lists including their translations. The best American source of indexing for these translations is the National Translations Center at the John Crerar Library, 35 W 33rd St., Chicago. In this bibliography, note of translation is made if the item is not from one of the routinely translated journals. Many of those noted have been translated at CRREL. Lack of notation should not be taken to mean that the item has not been translated; it is worth the reader checking further.

APPENDIX I: AUTHOR INDEX

(Number in parentheses indicates number of publications authored during the year)

1970

Akademiia Nauk SSSR

Aleksandrova, N.M., et al.

Aleksandrova, V.D. (3)

Andreev, V.N. (2)

Andreev, G.N.

Arhegova, I.B. (2)

Are, F.E.

Baulin, V.V.

Boch, M.S., et al. (3)

Boch, M.S.

Boretskii, M. IU

Chizhikov, P.N.

Derviz-sokolova, T.G. (2)

D'iakonova, AA (2)

Dolukhanov, A.G.

Drachkov, V.N.

Elovskaiia, L.G.

Euks, I.I.

Fel'dman, G.M.

Filippova, L.N.

Firsova, V.P., et al. (3)

Firsova, V.P.

Garagulia, L.S.

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30-453

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Forest tundra.
Plant ecology.

27-1695

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Forest tundra.
Tundra vegetation.
Ecology.

26-1054

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Tundra vegetation.
Forest tundra.
Plant ecology.

28-348

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30-451

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Tundra vegetation.

26-1455

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Peat

28-3485

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Active layer
Soil temperature

28-3489

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29-3670

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Soil formation.
Podsol.

27-1720

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Soil formation.
Soil profiles.

28-417

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vovedenie, 3: 23-28. In Russian. English
summary.

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8 refs.

Tundra soils.
Soil composition.
Tundra vegetation.
27-2352

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the southern subzone of the European tundra
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pochvakh iuzhnoi podzony Evropeiskoi tundry
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Tundra soils.
Tundra vegetation.
USSR-Vorkuta.

26-1713

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basseina geotermicheskim methodom) Sb. "Sev.
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L. Gidrometeoizdat, p. 500-502. Tolstakov,
D.N.

25-1858
NG

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thermokarst lake in Central Yakutia (Tempera-
turnyi rezhim gornykh porod pod vysykhaiushchim
termokarstovym ozerom v Tsentral'noi IAKutii)
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32-1285
NG

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(Lockheed)

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Soil formation
Taiga vegetation
Soil composition
USSR-Tavda
28-2665

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Electric power lines in Yakutia (Linii elektroperedachi v Iakutii) Yakutsk, Yakutskoe knizhnoe izd-vo. 184 p. In Russian with abridged English table of contents enclosed.

31-4130

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Tundra soils.

27-2659

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Arctic soils
Arctic vegetation

28-3753

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Taiga soils.
Taiga vegetation.

27-2346

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28-1015
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27-1135

NG

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32-1497

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Lichens

Tundra vegetation

BROWN

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Soil formation

Forest soils

Meadow soils

USSR--Khabarovsk

26-3818

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Southern boundary of relict permafrost and regularities of its distribution in West Siberia (Iuzhnaia granitsa reliktovykh merzlykh tolshch i nekotorye zakonomernosti ikh rasprostraneniia v Zapadnoi Sibiri) "Tr. PNIIS Gosstroia SSSR", 2., p. 194-204.

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Alpine soils.

Alpine vegetation.

Ecology.

26-462

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Arctic soils

Arctic vegetation

28-3751

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31-2696

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Vegetation.

Plant ecology.

27-1696

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29-1073

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Vegetation

Plant ecology

USSR--East Siberia

28-3528

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Subarctic soils. Subarctic vegetation.

26-1464

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Taiga terrain.
Taiga vegetation.
Thermokarst.

28-268

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NAL/CAIN

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31-2707

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28-3762

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BROWN

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Tundra soils
Tundra vegetation
Soil formation
USSR--Taymyr Peninsula

28-4108

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Tundra soils
Tundra vegetation
Plant ecology

26-1841

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29-3652

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29-1063

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29-3673

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Tundra regions.
USSR - Far north.

BROWN

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Tundra regions.
USSR--Far north.

27-2005

Blagodatskikh, L.S., 1973:

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Tundra vegetation
Mosses
Plant ecology

28-4114

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The course of natural reforestation in depleted peat bogs. Lesoved Lesn Knzh, 7: 108-113. In Russian. Zastenskii, E.I.

NAL/CAIN

Blintsov, I.K. et al., 1973:

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Peat
Soil formation

28-2717

Bobov, N.G., 1974:

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30-1767

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31-3772
NG

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Plant ecology
Peat

28-1676

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Tundra soils.
Tundra vegetation.
Ecosystems.

26-1058

Boch, M.S. et al., 1971:

Soils and vegetation of the Yamal tundra (O nekotorykh osobennostiakh rastitel'nosti i pochv tundrovoi zony Yamala). Geograficheskoe obshchestvo SSSR. Izvestiia, Nov.-Dec. 1971, 103(6), p. 531-538. In Russian, 21 refs. Gerasimenko, T.V., Tolchel'nikov, I.U.S.

Tundra
Plant ecology
Soil formation
USSR--Yamal Peninsula

26-2617

Boch, M.S. et al., 1971:

Swamps of Yamal (Bolota Yamala). Botanicheskii zhurnal, Oct. 1971, 56(10), p. 1421-1435. In Russian with English summary. 26 refs. Gerasimenko, T.V., Tolchel'nikov, I.U.S.

Forest tundra
Tundra soils
Soil moisture migration

26-2532

Boch, M.S. et al., 1970:

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Subarctic soils.
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Thermal regime of deep rocks in Northeastern Yakutia (Teplovoi rezhim neдр Severo-Vostochnoi Iakutii) V sb. "Geokriolog. issled.", Iakutsk, p. 141-145.

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Photosynthesis of arctic mosses under natural conditions (Fotosintez arkticheskikh mkhov v estestvennykh usloviakh) Ekologiya Jan.-Feb. 1976 No.1 p. 92-95. In Russian. 5 refs.

30-4111

D'iakonova, A.A., 1970

Mountain soils
Alpine vegetation
Plant ecology
USSR--Altay Mountains

26-1922

D'iakonova, A.A., 1970:

Soils of some plant associations in the southeastern Altay (Pochvy nekotorykh rastitel'nykh assotsiatsii iugo-vostochnogo Altaia). Ekologo-morfologicheskie i biokhimicheskie osobennosti poleznykh rastenii dikorastushchei flory Sibiri (Ecologic-morphological and biochemical properties of useful plants of the Siberian wild flora). Novosibirsk, Nauka, 1970, p. 272-286. In Russian. SB108.R9E38

D'iakonova, A. A., 1973:

Soils of the terrace above the floodplain of the Ob' in the Novosibirsk reservoir region (Pochvy nadpoimennykh terras Obi v raione Novosibirskogo vodokhranilishcha). Rastitel'nost' Priob'ia i ee khoziaistvennoe ispol'zovanie lesostepnykh raionov Priob'ia. Novosibirsk, Nauka, 1973, p. 242-255. In Russian. 2 refs.

Soil composition
Soil moisture
Forest soils

28-1935

D'iakov, V.N., 1973:

Erosion processes in felling areas of the Carpathian Mountain forests. Lesovedenie, 3: 55-56. In Russian. English summary.

NAL/CAIN

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29-2269

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NAL/CAIN

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Soil temperature.

27-1030

Dimo, V.N., 1976:

Methods of studying thermal regimes and thermophysical properties of soils (Metody izucheniia teplovogo reshima i teplofizicheskikh kharakteristik pochv) Principy organizatsii... (Principles of organization and methods of studying soil in experimental stations). Moscow, Nauka, p. 246-301. In Russian.

31-4134

Dimo, V.N., 1973:

Soil temperature and cryogenic phenomena on slopes (Temperatura pochv sklonov i ikh kriogennye iavleniia v merzlotnykh pochvakh) V sb. "Pochven. klimatol. Sibiri", Novosibirsk, Nauka, p. 127-143.

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Dimo, V.N., 1973:

Thermal conditions of soils in permafrost regions as a factor in the processes of cryogenesis and pedocryogenesis (Termicheskie usloviia pochv oblasti mnogoletnemerzlykh porod kak faktor protsessov kriogeneza i pedokriogeneza) V. sb. "2-ia Mezhdunar. konf. po merzlotovedeniiu. Dokl. i soobshch. vyp. 1" IAKutsk, p. 20-28.

28-1016

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Dimo, V.N., 1973:

Thermal conditions of soils in permafrost regions as a factor in the processes of cryogenesis and pedo-cryogenesis (Termicheskie usloviia pochv oblasti mnogoletnemerzlykh porod kak faktor protsessov kriogeneza i pedokriogeneza). International Conference on Permafrost, 2nd, Yakutsk, 1973, Vol. 1, p. 20-28. In Russian. 5 refs.

Cryogenic soils.
Soil formation.

28-1016

Distribution, renewal, and cultivation of Siberian cedar in European north of the USSR (Kedr sibirskii na evropeiskom severe SSSR ego rasprostranenie, vozobnovlenie i kul'tura). Akademiia nauk SSSR. Vsesoiuznoe botanicheskoe obshchestvo. Leningrad, Nauka, 1972, 84 p. In Russian. Numerous references. For individual papers see 28-0128 through 28-0132.

Forest soils.
Forest ecosystems.
Forest tundra.

28-128

Dmitrieva, E. V., 1973:

Pine forests of the northwestern part of the Karelian Isthmus (Sosnovye lesa severo-zapada Karel'skogo peresheika). Botanicheskii zhurnal, 1973, 58(8), p. 1093-1107. In Russian with English summary. 32 refs.

Taiga vegetation
Plant ecology
Lichens

28-1673

Dmitrieva, E.V., 1973:

Spruce forests in the northwest of the Karelian isthmus (El'niki severo-zapadnoi chast'i Karel'skogo peresheika). Lesovedenie, March-April, 1973, No. 2, p. 51-64. In Russian with English summary. 16 refs.

Taiga vegetation.
Plant ecology.
Taiga soils.

28-1301

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Microflora of the secondary-podsol soils in West Siberia (O mikroflоре vtorichno-podzolistykh pochv Zapadnoi Sibiri). Russia. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniia. Nauchnye doklady vysshei shkoly. Biologicheskie nauki, 1971, Vol. 9, p. 112-117. In Russian. 14 refs. Nikitin, D.I., Mazurenko, A.N.

Podsol

26-3226

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Recent swamp-forming processes in the central Taiga near the Ob' River. Sovremennye bolotoobrazovatel'nye protsessy v srednetazhnom Priob'e. Akademiia nauk SSSR. Izvestiia. Seriia geograficheskaiia. Mar.-Apr. 1972 No. 2. p. 26-38. In Russian. 17 refs.

Peat.

Taiga soils.

Taiga vegetation.

27-1774

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Types of mountain forests according to natural relative continuity of their plant cover. Voprosy tipologii gornyykh lesov v svyazi s trirodnoi otноситel'noi nepreryvnosti ikh rastitel'nogo pokrova. Moskovskoe obshchestvo ispytatelei prirody. Trudy, 1970 Vol. 38, p. 24-33. In Russian with English summary. 32 refs.

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Forest soils.

Forest ecosystems.

27-305

Domanskii, L.K., 1977:

Dam design and construction in the northern USSR and Siberia. U.S. Army CRREL TL 646. 13 p. Translated from Soviet-American working seminar "Technology of Cooperative Construction in Extreme Northern Climates", Leningrad, May 1977. Kudoiarov, L.I. Radchenko, V.G.

32-1432

Doncheva, A.V. et al, 1976:

Forecasting environmental changes caused by mining and metallurgical operations in the taiga zone (exemplified by copper-nickel smelting complexes in Monchegorsk and Sudbury) (Prognozirovanie izmehehiia prirody gornometallurgicheskikh proizvodstv v zone taigi (na primere medno-nikelevykh kompleksov v Monchegorske i Sudberi)) Moscow. Universitet. Vestnik. Seriia 5 Geografiia Sep.-Oct. 1976 No.5 p. 65-72.

31-2187

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The quantitative composition of humus in alpine Chestnut soils of Tuva ASSR. Izv Timiriazevsk S-kh Akad 1: 65-73. In Russian. English summary. Kaurichev, I.S.

NAL/CAIN

(Lockheed)

Dorogostaikaia, E.V.

during a long travel over the ocean have propagated widely, almost completely replacing native plants. Antropochorous cosmopolitan plants of the Far South are listed.

28-629

Dorogostaikaia, E.V., 1972:

Influence of man on the vegetation of the Tareya settlement. International biological programme, tundra biome; proceedings IV. International meeting on the biological productivity of tundra, Leningrad USSR, October 1971. Edited by F.E. Wielgolaski and Th. Rosswall. Stockholm, Tundra biome steering committee. April 1972. p. 199-200. 1 ref.

Tundra vegetation.

27-2678

Dorogostaikaia, E.V.

Man's influence on the distribution of plants and adaptations to new ecosystems of newly introduced plants are discussed. A comparison of Arctic and Antarctic flora (p. 30-33) shows that Arctic plants had favorable conditions to spread freely to the North during a long period of time and became hardy to the severe environment, resisting attempts of new species to survive, unless ecological conditions change. Plant species brought to Subantarctic islands and adapting not to environment, but to survival.

Dorogostaikaia, E.V. et al., 1973:

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Tundra vegetation
Tundra soils
Plant ecology
USSR--Taymyr Peninsula

28-4116

Dorogostaikaia, E.V., 1972:

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Arctic soils.
Arctic vegetation.

Data on the taxonomy, ecology and geographic distribution of native and introduced flora in the Arctic and Subarctic regions of the USSR are given.

Drachkov, V.N., 1970:

The effect of mice and birds on spruce reforestation. (Picea) Les Zh, 6: 141-142. In Russian.

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Trunks of pine trees of the European north affected by cancer (Rak stvolov v nasazhdeniakh sosny evropeiskogo Severa). Lesnoe khoziaistvo, Oct. 1972, No. 10, p. 64-65. In Russian.

Taiga soils.
Taiga vegetation.
Fungi.

28-503

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To the study of plant associations in anthropogenic habitats in the area of the Vorkuta Industrial Center. 30 p. Trans. into English. Zharkova, Yu. G.

Dubovets, A.G., 1971:

High bog vegetation of the Drut'Berezina interfluvium (Rastitel'nost' verkhovykh bolot Drut' Berezinskogo mezhdurech'ia). Vsesoiuznoe botanicheskoe obshchestvo. Belorusskoe otделение. Botanika, 1971, Vol. 13, p. 35-40. In Russian. 9 refs.

Peat
Vegetation
Plant ecology

26-2500

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29-2756

Dzhuraev, A.D., 1974:

Vegetation of primary alpine rock wastes of the Gissarskii Range and its role in their reinforcement. Probl Bot (Leningr), 12: 142-144. In Russian.

NAL/CAIN

Egorov, A.D. et al, 1972:

Basic regularities governing microelement distribution in the taiga-permafrost landscapes of Yakutia (Osnovnye zakonomernosti raspredeleniia mikroelementov v taizhno-merzlotnykh landshaftakh IAKutii) Vsesoiuznaia konferentsiia po merzlotnym pochvam, 1, Iakutsk, 1969. Merzlota i pochva (Permafrost and soil) Vol. 2 Yakutsk, p. 211-215. In Russian. Grigor'eva, D.V. Sazonov, N.N.

31-496

Egorov, A.D., 1971:

Trace element migration and accumulation in the vegetation of Yakutia (Migratsiia i akkumuliatsiia mikroelementov v rasteniiakh IAKutii). Biologicheskaiia produktivnost' i krugovorot khimicheskikh elementov v rastitel'nykh soobshchestvakh (Biological productivity and mineral cycling in terrestrial plant communities). Leningrad, Nauka, 1971, p. 273-277. In Russian. 8 refs. QH541.3.B56

Subarctic soils
Tundra vegetation
Taiga vegetation

28-2758

Egorov, O.V., 1972:

Program for studying large mammals in the Arctic and Subarctic (Programma izucheniiia krupnykh nazemnykh mlekopitaiushchikh Arktiki i Subarktki). Izuchenie biogeotsenozov tundry i lesotundry (Study of tundra and forest-tundra biocenoses). Leningrad, Nauka, 1972, p. 115-117. In Russian.

Tundra vegetation.
Plant ecology.
Ecosystems.

28-1266

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Environmental protection during the construction and operation of mines in permafrost regions. Symposium on Environmental Protection in Relation to Economic Development of Permafrost Regions. CRREL TL 518, p. 31-33.

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Classification and systematics of Yakutian soils (K voprosu o klassifikatsii i sistematike pochv IAKutii) V sb. "Merzlota i pochva" Iakutsk, vyp. 3, p. 28-61. Ivanova, E.P. Rozov, N.N.

31-501
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Elovskaiia, L.G., 1972:

Cryogenic north taiga soils in the Iukagirskoe plateau. (Merzlotnye severotaezhnye pochvy Iukagirskogo ploskogor'ia) Vsesoiuznyi simpozium po biologicheskim problemam Severa, 5th, Magadan, Apr. 18-22, 1972. Pochvy i rastitel'nost' merzlotnykh raionov SSSR (Soil and vegetation of permafrost regions in the USSR) p. 56-62. In Russian with English summary. 11 refs. Teterina, L.V.; Petrova, E.I.

30-679

Elovskaiia, L.G., 1974:

Land holdings of Yakutia and their effective use (Zemel'nye fondy IAKutii i ikh ratsional'noe ispol'zovanie) V kn.: "Pochvennye issledovaniia v IAKutii". Iakutsk, p. 5-26.

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Elovskaiia, L.G., 1975:

Meliorative characteristics of saline cryogenic soils and experience in their desalting (meliorativnye osobennosti merzlotnykh pochv i opyt ikh rassoleniia) V kn. "Pochvennyi kriogenez i melioratsiia merzlotnykh i kholodnykh pochv", M. Nauka, p. 134-138. Konorovskii, A.K.

30-4239
NG

Elovskaya, L.G., 1974:

Melioratsiya merzlotnykh pochv IAKutii)
Biologicheskie problemy Severa, VI simpozium; Bypusk 6: Pochvovedenie i zemel'nye resursy (Tezisy dokladov) (Biological Problems of the North, 6th symposium; Vol.6: Soil science and earth resources (Summaries of the papers)) Yakutsk, Akademiya nauk SSSR, p.57-65. In Russian. Konorovskii, A.K.

29-1069

Elovskaya, L.G., 1976:

Prospects for agricultural development of Yakutia soils in the Baykal Amur Railroad area (Perspektivy sel'skokhoziaistvennogo ispol'zovaniya pochv IAKutii v raione trassy BAM") V kn.: Biologicheskie problemy Severa. VII simpozium (Pochvovedenie, agrokhemika, melioratsiya), Petrozavodsk, p. 49-51.

NG

Elovskaya, L.G., 1975:

Soil formation conditions and the peculiarities of tundra soils in the northeastern USSR (Usloviya pochvoobrazovaniya i osobennosti tundrovnykh pochv severovostoka SSSR) V sb. "Pochvennyi kriogenez i melioratsiya merzlotnykh i kholodnykh pochv", M. Nauka, p. 29-32.

30-4226

NG

Elovskaya, L.G., 1976:

Soil-geographic regionalization of North Yakutia (Pochvenno-geograficheskoe raionirovanie Severnoi IAKutii) V kn.: "Biologicheskie problemy Severa. VII simpozium (pochvovedenie, agrokhemika, melioratsiya)", Petrozavodsk, p. 46-49.

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Elovskaya, L.G., 1972:

Soil melioration characteristics of lands owned by the Yakutian ASSR (Pochvenno-mellorativnaya kharakteristika zemel'nogo fonda IAKutskoi ASSR) V kn.: "Priroda IAKutii i ee okhrana" IAKutsk, p. 183-186. Konorovskii, A.K.

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Elovskaya, L.G., 1970:

Soil resources in Yakutia and prospects for new land developments (Pochvennye resursy IAKutii i perspektivy osvoeniya novykh zemel') V kn.: "Problemy razvitiya proizvoditel'nykh sil IAKutskoi ASSR" IAKutsk, p. 159-165.

NG

Elovskaya, L.G., 1972:

Soils in the basins of Chona, Bol'shaya and Malaya Botuobiya and Vilyuchan rivers (Pochvy basseinov rek Chony, Bol'shoi i Maloi Botuobii i Viliuchana) V sb. "Pochvennye i botanicheskie issledovaniya v IAKutii", IAKutsk, p. 29-49. Konorovskii, A.K. Petrova, E.I.

NG

Elovskaya, L.G., 1974:

Tundra soils of the Maritime Plain (Tundrovye pochvy primorskoj nizmennosti) V sb. "Pochvennye issledovaniya v IAKutii" IAKutsk, p. 27-37. Petrova, E.I. Teterina, L.V.

NG

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Two forms of gley formation processes in cryogenic soils of Yakutia (Dva varianta proiavleniia gleeobrazovaniia v merzlotnykh pochvakh Iakutii) V kn.: "Pochvennyi kriogenez", M., Nauka, p. 127-134.

29-1994

NG

Elovskaya, L.G., 1974:

Ways of cryogenic soil melioration in Yakutia (Puti melioratsii merzlotnykh pochv Iakutii) V sb. "Doklady sibirskikh pochvovedov X kongressu pochvovedov". Novosibirsk, Nauka, p. 121-128. Konorovskii, A.K.

32-1262

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Environment protection in relation to economic development of permafrost regions. Abstracts of papers presented at a conference (Okhrana obruzhaiushchei sredy v sviazi s rasprostraneniia mnogoletnemerzlykh porod. Tezisy dokladov) Melnikov, P.I. ed. Yakutsk, 1975 141 p. In Russian with English table of contents enclosed.

30-2381

Ermolaev, V.I., 1972:

Studying algae in tundra water bodies (Izuchenie vodoroslevoi rastitel'nosti tundrovyykh vodoemov). Izuchenie biogeotsenozov tundry i lesotundry (Study of tundra and forest-tundra biocenoses). Leningrad, Nauka, 1972, p. 84-86. In Russian.

Tundra vegetation.

Plant ecology.

Photosynthesis.

28-1261

Ershov, E.D. et al., 1973:

Ice sublimation in fine-grained soils of various cryogenic textures, upon their reaction with air (Sublimatsiia l'da v dispersnykh gruntakh razlichnogo kriogenno stroeniia pri ikh vzaimodeistvii s vozdushnym potokom). International Conference on Permafrost, 2nd, Yakutsk, 1973 1973, Vol. 4, p. 185-188. In Russian. 6 refs. Gurov, V.V. Dostovalov, B.N.

Soil moisture migration.

28-1102

Ershov, E.D., 1971:

Approximate numerical evaluation of the effect of various natural factors on temperature regime of rock (Priblizhennaia kolichestvennaia otsenka vliianiia razlichnykh faktorov prirodnoi obstanovki na temperaturnyi rezhim porod) V sb. "Merzlotn. issled.", vyp. 11, M. Mosk. Un-t., p. 52-56.

26-3901

NG

Ershov, L.A., 1971:

Studying artificial reforestation in the Far Eastern north (Zadachi issledovaniia iskusstvennogo vosstanovleniia lesov Dal'nevostochnogo Severa). Biologicheskie resursy sushi severa Del'nego Vostoka (Biological resources of land of the northern Far East), vol. 2, p. 52-58. In Russian.

32-1455

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Euks, I.I., 1970:

Dynamics of the vegetational cover in the northern part of the central Siberian Plateau. Dinamicheskie tendentsii rastitel'nogo pokrova na severe Sredne-Sibirskogo ploskogor'ia. Akademiia nauk SSSR. Sibirskoe otdelenie. Institut goeografii Sibiri i Dal'nego Vostoka. Doklady 1970 Vol. 28 p. 10-16. In Russian. 19 refs.

Forest tundra.

Tundra soils.

Tundra vegetation.

27-1818

Evdokimova, T.I., 1972:

Productivity of some plants in Karelia and their role in the soil formation processes. (O produktivnosti nekorotnykh rastenii Karelii i ikh roli v protsessakh pochvoobrazovaniia) Pochvy i produktivnost' rastitel'nykh soobshchestv. Vyp 1 (Soils and productivity of plant communities. Vol. 1) Moscow, MGU, p. 177-130. In Russian. 14 refs.

27-1230

Fadin, I.A. et al., 1972:

Drying felled areas of bilberry heath and grass moors by surface drainage. Lesnoe khoziaistvo, Feb. 1972, No. 2, p. 41-43. In Russian. Smolianskaya, L.B., Stadnitskaya, N.I.

Taiga soils.
Taiga vegetation.

27-388

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Fedina, A.E.

Alpine vegetation.
Plant ecology.
USSR--Caucasus.

28-730

Fedina, A.E., 1972:

Physiographic subdivision of the eastern part of the northern slope of the Caucasus (Fiziko-geograficheskoe raionirovanie vostochnoi chasti severnogo sklona Bol'shogo Kavkaza). Landshaftnoe kartografirovanie i fiziko-geograficheskoe raionirovanie gornyykh oblastei (Landscape mapping and physiographic zoning of mountain regions). N.A. Gvozdet'skii, ed. MGU, 1972, p. 5-96. In Russian. 84 refs.

Alpine soils.

Fedorov, F.M., 1975:

Influence of natural conditions on thermal regime of perennially frozen rocks around an excavation (Otsenka vliianiia estestvennykh uslovii na temperaturnyi rezhim okruzhaiushchikh vyrabotku mnogoletnemerzlykh gornyykh porod) V sb. "Issled. fiz.-tekhn. probl. Severa", Iakutsk, p. 54-61.

NG

Fedorov, F.M., 1976:

Thermal regime of excavations in permafrost (O temperaturnom rezhime gornyykh vyrabotok v usloviakh mnogoletnei merzloty) V sb. "Teplo- i massobmen v materialakh pri estestvenno nizk. temperaturakh", Iakutsk, p. 41-52.

NG

Fedorov, K.N. et al., 1972:

Manganic-ferrous formations in the taiga soils of the Ob'-Irtysh interfluvium (Margentsovo-zhelezistyie novoobrazovaniia v pochvakh taizhnoi zony Ob'-Irtyshskogo mezhdurech'ia). Russia. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniia. Nauchnye doklady vysshei shkoly. Biologicheskie nauki, 1972, No. 7, p. 125-129. In Russian. 6 refs. Shoba, S.

Taiga soils
Soil formation
Soil profiles

28-2714

Fedorova, N.M., 1972:

Hydrothermal regime of seasonally freezing and thawing soils and subsoils in the northern and central taiga of west Siberia (Gidrotermicheskii rezhim sezonopromerzaiushchikh i sezonoprotaiuaiushchikh pochvogruntov severnoi i srednei taigi Zapadnoi Sibiri) Vsesoiuznyi simpozium po biologicheskim problemam Severa, 5th, Magadan, Apr. 18-22, 1972. Pochvy i rastitel'nost' merzlotnykh raionov SSSR (Soils and vegetation of permafrost regions in the USSR) p. 79-81. In Russian with English summary. 3 refs.

30-683

Fedorova, N.M., 1974:

Thermal and moisture regimes in a soil profile affected by prolonged seasonal freezing (middle taiga subzone, west Siberia). *Geoderma* 12(1/2, special issue): 111-119. In English.

NAL/CAIN

(Lockheed)

Fel'dman, G.M., 1970:

Thermal regime of frozen rocks in the zone of annual temperature fluctuation (*Temperaturnyi rezhim merzlogo grunta sloia godovykh kolebanii temperatury*) "Tr. PNIIS Gosstroia SSSR", 2, p. 144-174.

NG

Fedorovskii, V.D., 1973:

Distribution and variability of geographic types of *Ribes acidum* Turcz. ex Pojark. and *Ribes hispidulum* Pojark. in Siberia (*O rasprostraneni i izmenchivosti geograficheskikh ras Ribes acidum Turcz. ex Pojark. i Ribes hispidulum Pojark. v Sibiri*). *Novosti geografii i sistematiki rastenii Sibiri* (Geography and taxonomy of Siberian vegetation), ed. by A. P. Skabichevskii. Novosibirsk Nauka, 1973, p. 24-30. In Russian. 17 refs.

Taiga vegetation
Tundra vegetation

28-2705

Fedotov, S.S., 1973:

Natural afforestation of drained transitional bogs (*O estestvennom oblesenii osushennykh perekhodnykh bolot*) Kompleksnaia otsenka bolot i zabolochennykh lesov v sviazi s ikh melioratsiei (Complex evaluation of swamps and swampy forests in relation to land reclamation) Novosibirsk, Nauka, p. 104-112. In Russian. 13 refs.

29-1028

Fel'dman, G.M., 1973:

Methods for calculating thermal regime of frozen ground (*Metody rascheta temperaturnogo rezhima merzlykh gruntov*) M., Nauka, p. 254.

27-2736
NG

Filippova, L.N., 1972:

Dynamics of seasonal growth of certain perennial grasses in the tundra and forest belts of the Khibiny Mountains (*Dinamika sezonnogo razvitiia nekotorykh vidov travianistykh mnogoletnikov v tundrovom i lesnom poiasakh Khibinskiikh gor*) Flora i rastitel'nost' Murmanskoi oblasti (Murmansk Region vegetation) Leningrad, Nauka, p. 53-61. In Russian. 7 refs.

29-1406

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Mosses.

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Ecology.

26-1050

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USSR--Ural Mountains

26-1866

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Taiga soils
Soil formation

26-1870

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Plant ecology
USSR--Ural mountains

26-1865

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Soil moisture
Taiga soils

26-1871

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Soil profiles
Taiga soils

28-2715

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Taiga vegetation.

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30-2298

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Soil moisture.

28-1198

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27-130

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Arctic vegetation
Arctic soils
USSR--Wrangel Island

28-4227

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USSR--Wrangel Island.

28-37

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Arctic vegetation
Arctic soils
USSR--Wrangel Island

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Taiga terrain.
Ecology.
27-1773

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Tundra soils
Tundra vegetation
26-1728

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Tundra vegetation.
Taiga soils.
Taiga vegetation.

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Plant ecology.
vegetation.

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Alpine soils
Alpine vegetation
USSR--Amur River

26-3819

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USSR--Far East

26-3820

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Tundra vegetation.
Plant ecology.

28-1254

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Subarctic vegetation
Plant ecology

28-3188

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Arctic soils.
Tundra soils.

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Soil formation.
Soil composition.
USSR-Kola Peninsula.

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Soil chemistry.

27-1029

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Deserts.

Tundra vegetation.

Forest tundra.

28-1262

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Forest tundra.
Plants (Botany).

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Tundra vegetation.

Plant ecology.

Ecosystems.

28-1263

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Taiga vegetation
Taiga soils

28-1671

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Plant ecology
Taiga soils.

28-366

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Subarctic soils
Subarctic vegetation

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USSR--Primorskiy Kray

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Taiga vegetation

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USSR--Tyumen'

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Soil moisture
Soil composition

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Tundra vegetation.

26-1708

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Tundra terrain

26-1797

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USSR--ARY-MAS.

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28-1305

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Tundra soils

Patterned ground

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USSR-ARY-MAS.

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Taiga soils.

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Alpine vegetation.

Plant ecology.

USSR--Verkhoyansk.

USSR--Kolyma

27-19

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Plant ecology

Arctic soils

28-2233

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Arctic soils

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Podsol
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Meadow soils
USSR-Amur River
USSR--Primorskiy Kray
26-3816

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Soil composition.

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Tundra soils.

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Plant ecology

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Peat

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USSR--Tavda

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Forest soils
Soil formation
USSR--Ural Mountains

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Tundra vegetation.

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USSR-Magadan.

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Arctic soils

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Soil moisture migration

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Ecosystems

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Forest ecosystems
USSR-Tavda

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Soil classification
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Tundra vegetation.

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Taiga vegetation.

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Forest tundra

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Plant ecology

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Peat

Soil moisture migration

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Tundra soils

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Arctic soils.
Deserts.

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Tundra vegetation.

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Meadow soils.

Tundra soils.

Biomass.

26-1693

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Tundra vegetation

Plant ecology

USSR--Magadan

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Tundra soils

Forest tundra

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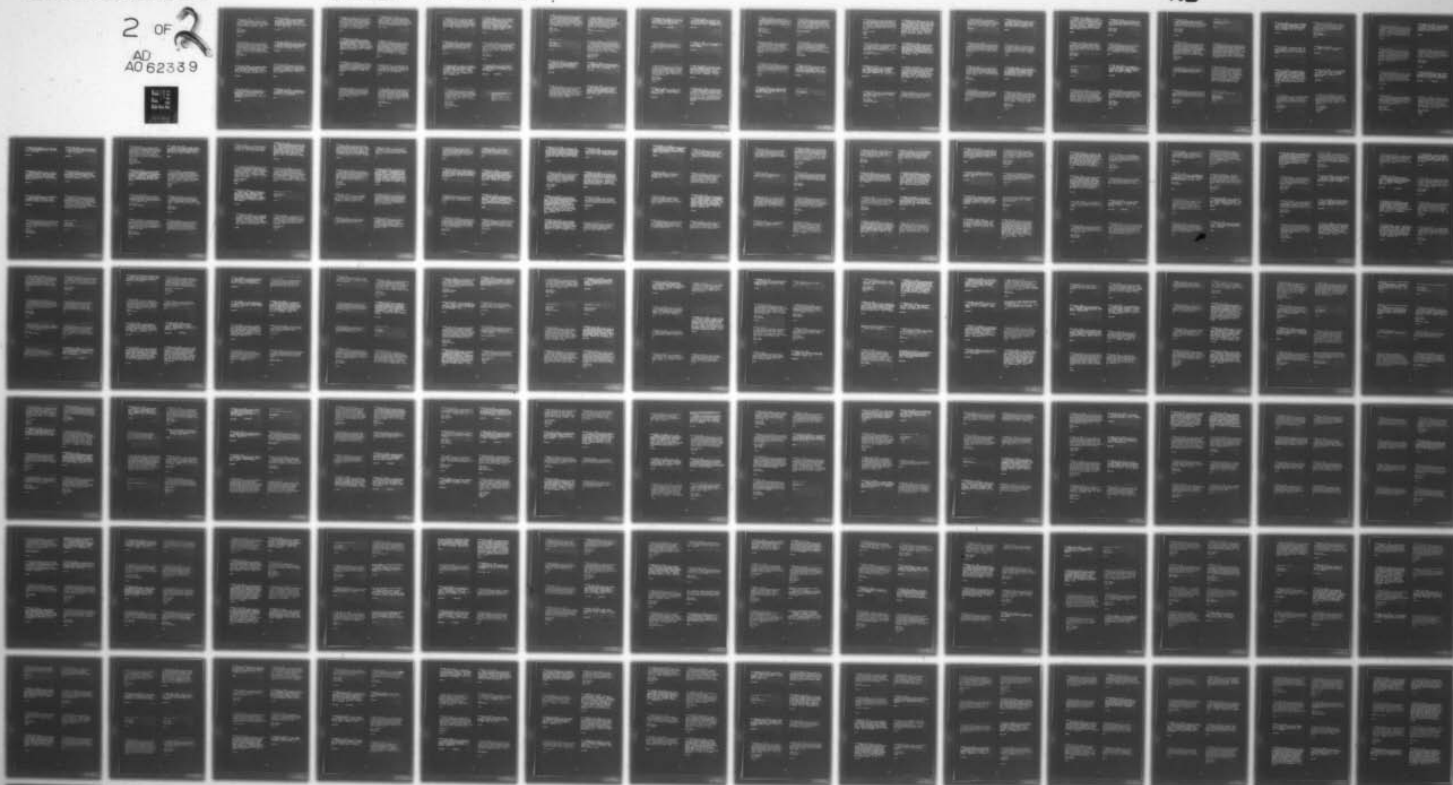
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USSR--Taymyr

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USSR--Ural Mountains.

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Lichens

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USSR-Kola Peninsula.

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Plant ecology.

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Soil formation

Tundra vegetation

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Soil profiles

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Vegetation factors.

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Forest tundra.

Cryogenic processes

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Lichens.

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Forest soils

Vegetation

USSR--Ural Mountains

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Forest ecosystems

Forest soils

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26-1718

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Active layer

Soil temperature

28-3488

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Plant ecology.

28-131

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Arctic vegetation

Photosynthesis

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Arctic vegetation.

USSR-Wrangel Island.

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USSR-Wrangel Island.

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USSR--Karelia

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USSR--Tien Shan

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28-3486

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28-3487

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Tundra vegetation.

Tundra soils.

Thermal regime.

USSR-Taymyr

26-133

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Soil temperature

Tundra soils

Vegetation factors

28-1661

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Plants (Botany).

Biological productivity.

27-2680

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Tundra vegetation.

Biomass.

26-641

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Alpine vegetation.

Alpine soils.

28-120

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Forest ecosystems

USSR--Tavda

28-2670

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Active layer.

Soil moisture migration.

Cryogenic processes.

28-1369

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28-1370 thru 1380

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Forest tundra
Tundra vegetation
Soil formation
Soil moisture migration

26-3076

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Soil formation
Soil composition
Podsol
USSR--Kamchatka peninsula

26-3821

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30-4500

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Soil moisture migration.

28-744

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Soil formation

Peat

Vegetation

28-3481

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Peat

Vegetation

28-3491

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Meadow soils

Soil moisture migration

USSR--Amur River

26-3875

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Plants (Botany).

Soil temperature.

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Plant ecology

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Taiga.

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Vegetation.

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Ecosystems.

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Soil formation.

26-1715

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Fungi.

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Alpine soils

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Tundra soils
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28-3748

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Alpine soils
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USSR--Pamirs

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Taiga soils
Soil formation

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Arctic soils

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Plant ecology

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Tundra soils
Tundra vegetation

26-1949

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Ecology
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Plant ecology

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Arctic soils.

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Plant ecology.
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Plant ecology

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USSR-Bol'shaya Zemlya

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Arctic soils.

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Soil formation.

Taiga soils.

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Tundra.

USSR-Far North.

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Tundra vegetation.

Biomass.

27-2353

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Clay soils

Soil composition

Soil profiles

28-2542

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Taiga vegetation.

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Soil composition.

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Tundra soils

Tundra vegetation

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Active layer.

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Alpine vegetation

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Thermokarst

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Taiga vegetation

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USSR-Taymyr.

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Tundra vegetation
Soil formation

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Soil temperature.

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Soil temperature
Alpine soils

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Biomass.

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Lichens.

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Plant ecology
Biomass

USSR--Komi ASSR

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Vegetation
USSR-Karelia

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Photosynthesis.

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